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APPLICATION NO.	· FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/815,029	03/31/2004	Sachin Govind Deshpande	SLA1488	7808	
7590 01/29/2008 GERALD W. MALISZEWSKI P. O. BOX 270829			EXAMINER		
			KASSA, YOSEF		
SAN DIEGO, CA 92198-2829		·	ART UNIT	PAPER NUMBER	
	•		2624		
•					
			MAIL DATE	DELIVERY MODE	
			01/29/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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•		Application No.	Applicant(s)	
Office Action Summary		10/815,029	DESHPANDE, SACHIN GOVIN	D
		Examiner	Art Unit	
		YOSEF KASSA	2624	
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	ne correspondence address	
A SH WHIC - Exte after - If NC - Failu Any	CORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DEPOSITION OF	DATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply to will apply and will expire SIX (6) MONTHS te, cause the application to become ABAND	TION. De timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).	
Status				
2a) <u></u> □	Responsive to communication(s) filed on 31 ft. This action is FINAL . 2b) This since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters,	•	
Disposit	ion of Claims			
5) □ 6) ⋈ 7) ⋈ 8) □ Applicat 9) □ 10) □	Claim(s) 1-74 is/are pending in the application 4a) Of the above claim(s) is/are withdrawing Claim(s) is/are allowed. Claim(s) 1-6,13-15,36,37,39-45 and 51-53 is/are Claim(s) 7-12,16-35,38,46-50 and 54-74 is/are Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examination The drawing(s) filed on is/are: a) according a control of the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination and the control of the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination and the control of the control o	awn from consideration. are rejected. e objected to. or election requirement. er. cepted or b) objected to by the drawing(s) be held in abeyance. ction is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).	
Priority (under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Bureasee the attached detailed Office action for a list	ts have been received. ts have been received in Applic prity documents have been received. au (PCT Rule 17.2(a)).	cation No eived in this National Stage	
2) 🔲 Notic 3) 🔯 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 03/31/04,06/13/05.	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 13-15, 36, 37, 39-45 and 51-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Devaney et al (U.S. Patent 5819035), and further in view of Kryukov et al (U.S Patent 7003174).

Regard to claim 1, Devaney discloses accepting a plurality of image pixels (refer to col. 25-30);

in response to the first group data, deciding if the test pixel includes image ringing artifacts (refer to col. 7, lines 15-22);

collecting data from a first group of pixels neighboring a test pixel (refer to col. 5, lines 12-25);

replacing the test pixel actual value with FV (refer to col. 5, lines 22-30).

Devaney does not disclose expressly for in response to the second group data, generating a filtered value. However, at the same field of endeavor, Kryukov discloses this feature (please refer to col. 7, lines 15-22). At the time of the invention, it would have been obvious to a person

of ordinary skill in the art to incorporate the teaching Kryukov image filtering system into Devaney system. The suggestion/motivation for doing so would have been to provide the process of reducing artifacts in an image previously processed by block transformation (refer to col. 5, lines 45-60 or Kryukov). Therefore, it would have been obvious to combine Kryukov with Devaney to obtain the invention as specified in claim 1.

Regard to claim 2, Devaney discloses wherein collecting data from a second group of pixels neighboring a test pixel includes performing a mathematical operation on the second group of pixels (refer to col. 5, lines 12-22.

Regard to claim 3, Devaney discloses wherein collecting data from a first group of pixels neighboring a test pixel includes performing a mathematical operation on the first group of pixels (refer to col. 5, lines 12-22).

Regard to claim 4, Devaney discloses wherein collecting data from a first group of pixels neighboring a test pixel further includes comparing the results of the mathematical operation to a threshold (refer to col. 8, lines 12-16).

Regard to claim 5, Devaney discloses wherein performing a mathematical operation on the first group of pixels includes: defining a matrix; and, multiplying the first group of pixels by the matrix (refer to col. 5, lines 12-17 and col. 8, lines 12-18).

Regard to claim 6, Devaney discloses wherein the matrix is defined such that a zero value is assigned to the position of the test pixel in the matrix (refer to col. 11, lines 9-16).

Regard to claim 13, Devaney discloses decoding compressed image information; and, wherein accepting a plurality of image pixels includes accepting the decoded image information (refer to col. 3, lines 35-42).

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Regard to claim 14, Devaney discloses wherein collecting data from a second group of pixels neighboring the test pixel includes adding the test pixel to the second group of pixels (refer to col. 8, lines 12-23).

Regard to claim 15, Devaney fails to disclose collecting data from a second group of pixels neighboring the test pixel includes collecting data from 8 pixels neighboring the test pixel. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide collecting data from 8 pixels neighboring. Applicant's have not disclosed that collecting data from 8 pixels neighboring provides an advantage, is used for a particular purpose or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected applicant's invention to perform equally well with either collecting data from 6 pixels neighboring taught by Devaney or the claimed limitation, collecting data from 8 pixels neighboring, because both perform the same function that is, collecting neighboring pixels information. Therefore, it would have been obvious to combine to one of ordinary skill in this art to modify Devaney to obtain the invention as specified in claim 15.

Regard to claim 39, Devaney disclose generating a map value for each pixel in the second group; and, using pixels from the second group to calculate FV, if they are equal to a first map value (refer to col. 8, lines 60-64 and Fig. 7A).

Regard to claim 41, Devaney disclose wherein the filter performs a mathematical operation on the second group of pixels (refer to col. 5, lines 1-5).

Regard to claim 42, Devaney disclose wherein the decision unit performs a mathematical operation on the first group of pixels (refer to col. 12-15).

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Regard to claim 43, Devaney disclose wherein the decision unit compares the results of the mathematical operation to a threshold (refer to col. 8, lines 12-18).

Claims 44 and 45 are similarly analyzed the same as claims 5 and 6.

Claims 40-45 are similarly analyzed the same as claims 1-6.

Claims 36 and 37 are similarly analyzed the same as claims 1 and 5.

Claims 51-53 are similarly analyzed the same as claims 13-15.

Allowable Subject Matter

2. Claims 7-12, 16-35, 38, 46-50 and 54-74 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Other Prior Art Cited

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. (5598184), (5581371), (6728414), (6539060) and (6115503).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOSEF KASSA whose telephone number is (571) 272-7452. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM.

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01/22/2008.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Werner can be reached on (571) 272-7401. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300 for regular communication and (571) 273-8300 for after Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service office whose telephone number is (571) 272-2600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YOSEF KASSA BRIMARY EXAMINER